



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
-----------------	-------------	----------------------	---------------------	------------------

09/913,987

08/20/2001

Harald Bock

8341

29177 7590 09/08/2004

BELL, BOYD & LLOYD, LLC

P. O. BOX 1135

CHICAGO, IL 60690-1135

EXAMINER

BELLO, AGUSTIN

ART UNIT

PAPER NUMBER

2633

DATE MAILED: 09/08/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 09/913,987	Applicant(s) BOCK ET AL.	
	Examiner Agustin Bello	Art Unit 2633	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 4-7 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 4-7 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 20 August 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>6/9/03</u> . | 6) <input type="checkbox"/> Other: ____. |

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 4 and 5 are rejected under 35 U.S.C. 102(e) as being anticipated by Thompson (U.S. Patent No 6,249,510).

Regarding claim 4, Thompson teaches a network node (Figure 2) having optical add modules (reference numerals 35-1 and 35-2 in Figure 2) and drop modules (reference numeral 30-1 and 30-2 in Figure 2) for a bidirectional ring network (Figure 1) that has a working connection (reference numeral 21, 22 in Figure 2) and a protection connection (reference numeral 11, 12 in Figure 2) to other network nodes, comprising: a first drop module (reference numeral 30-1 in Figure 2) and a first add module (reference numeral 35-1 in Figure 2) positioned on a protection module (e.g. the module incorporating reference numerals 30-1, 35-1, 40, and 45 in Figure 2) for bidirectional protection connection; and a second drop module (reference numeral 30-2 in Figure 2) and a second add module (reference numeral 35-2 in Figure 2) positioned on a working module (reference numeral 35-2, 30-2, 40, and 45 in Figure 2) for bidirectional working connection, wherein the second drop module (reference numeral 30-2 in Figure 2) and the first add module (reference numeral 35-1 in Figure 2) are positioned in series (e.g. via reference numeral 32-4 in Figure 2) with respect to a second fiber ring (reference numerals 11, 12 in

Art Unit: 2633

Figure 2) and wherein the first drop module (reference numeral 30-1 in Figure 2) and the second add module (reference numeral 35-2 in Figure 2) are positioned in series (e.g. via reference numeral 31-1 in Figure 2) with respect to a first fiber ring (reference numeral 21, 22 in Figure 2).

Regarding claim 5, Thompson teaches the network node as claimed in Claim 4, wherein the first drop (reference numeral 30-1 in Figure 2) and add modules (reference numeral 35-1 in Figure 2) of the protection module and the second drop (reference numeral 30-2 in Figure 2) and add modules (reference numeral 35-2 in Figure 2) of the working module each have a line input (reference numerals 11 and 22 in Figure 2) and a line output (reference numeral 12, 21 in Figure 2) such that the first drop and add modules and the second drop and add modules are each insertable in the first or second fiber rings (as seen in Figure 1).

3. Claims 6 and 7 are rejected under 35 U.S.C. 102(e) as being anticipated by Liu (U.S. Patent No. 5,953,141).

Regarding claim 6, Liu teaches a network node (Figure 11) having optical add modules (reference numeral 1113 and 1114 in Figure 11) and drop modules (reference numeral 1111 and 1112 in Figure 11) for a unidirectional ring network (as noted in the abstract) which has a working connection (reference numeral O2 in Figure 11) and a protection connection (reference numeral O1 in Figure 11) to other network nodes, comprising: a first drop module (reference numeral 1112 in Figure 11) and a first add module (reference numeral 1114 in Figure 11) positioned on a protection module (reference numerals 1101, 1102, 1112, 1105, 1103, 1114, and 1104 in Figure 11) for protection connection; and a second drop module (reference numeral 1111 in Figure 11) and a second add module (reference numeral 1113 in Figure 11) positioned on a working module (reference numerals 1101, 1102, 1111, 1105, 1103, 1113, and 1104 in Figure

Art Unit: 2633

11) for working connection, wherein the first drop module (reference numeral 1112 in Figure 11) and the first add module (reference numeral 1114 in Figure 11) are inserted in series in a second fiber ring (e.g. to O_1) and the second drop module (reference numeral 1111 in Figure 11) and the second add module (reference numeral 1113 in Figure 11) are inserted in series in a first fiber ring (e.g. I_1 to O_2).

Regarding claim 7, Liu teaches the network node as claimed in Claim 6, wherein the first drop and add modules (reference numerals 1112, 1114 in Figure 11) and the second drop and add modules (reference numeral 1111, 1113 in Figure 11) each have a line input (reference numeral I_1, I_2 in Figure 11) and a line output (reference numeral O_1, O_2 in Figure 0) such that the first drop and add modules and the second drop and add modules are insertable in series into the first fiber ring or the second fiber ring (as seen in Figure 11).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Agustin Bello whose telephone number is (703)308-1393. The examiner can normally be reached on M-F 8:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jason Chan can be reached on (703)305-4729. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 2633

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Agustin Bello
Examiner
Art Unit 2633

A handwritten signature in black ink, appearing to read "A. Bello", written in a cursive style.

AB